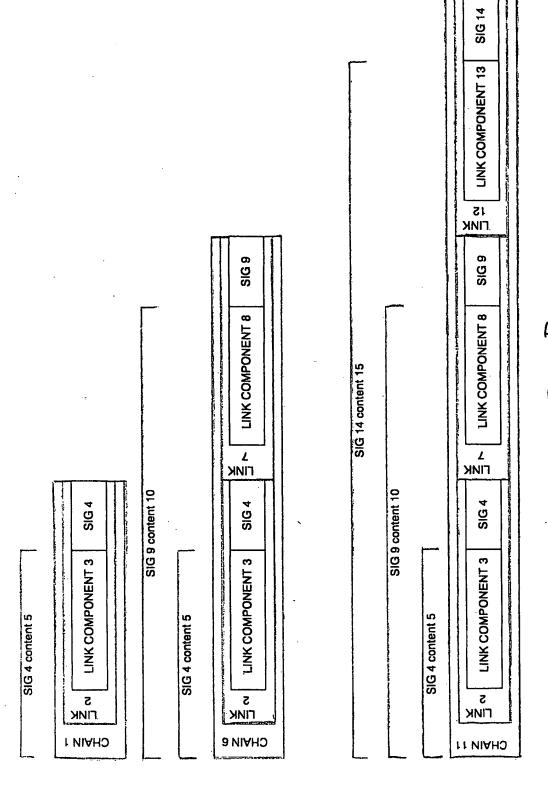


## Data Structure Definitions in ASN.1 permissionChain ::= SEQUENCE OF permissionLink permissionLink ::= SEQUENCE { ${\tt permissionLinkComponent\ permissionLinkComponent,}$ Signature OCTET STRING permissionLinkComponent ::= SEQUENCE { Name OCTET STRING, Uri OCTET STRING, Description OCTET STRING, Note OCTET STRING, Version INTEGER, Src p INTEGER, Src\_q INTEGER, Src\_g INTEGER, Src\_pub INTEGER, Src\_x509cert OCTET STRING, Src email OCTET STRING, Subj p INTEGER, Subj\_q INTEGER, Subj\_g INTEGER, Subj\_pub INTEGER, Subj\_x509cert OCTET STRING, Subj\_email OCTET STRING, Delegate BOOLEAN, Read BOOLEAN, Write BOOLEAN, validFrom GeneralizedTime,

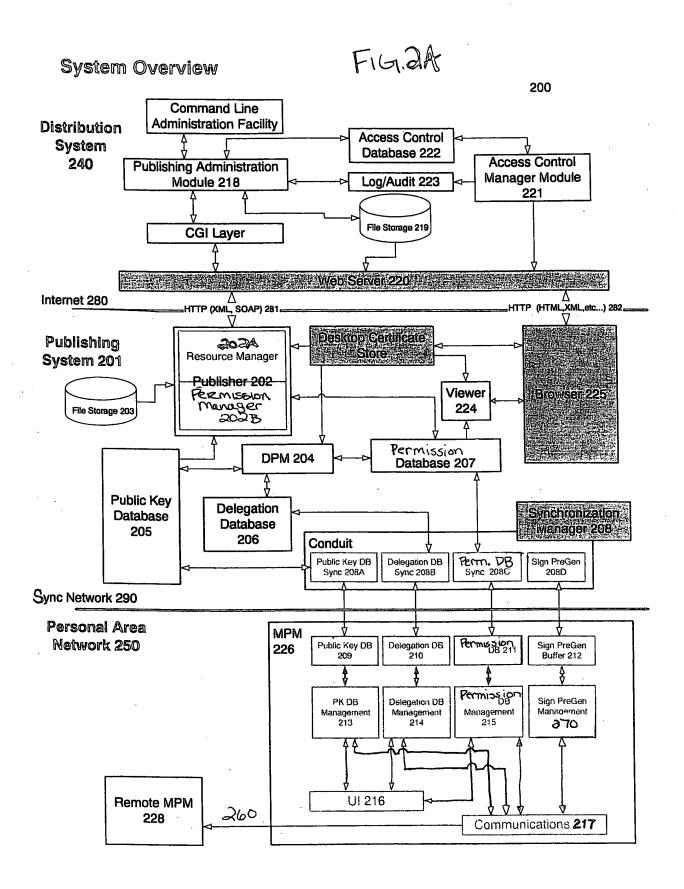
validTo GeneralizedTime

}

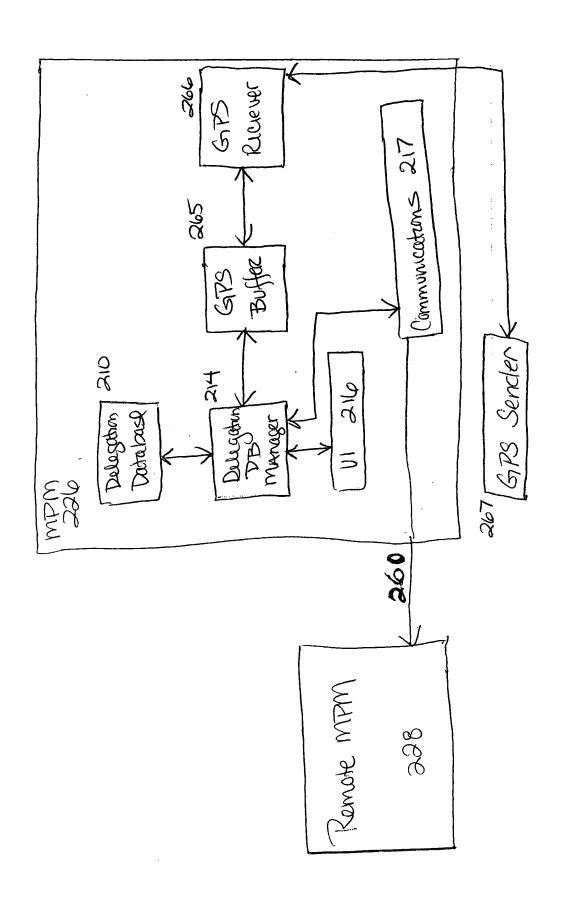
F161. 1C



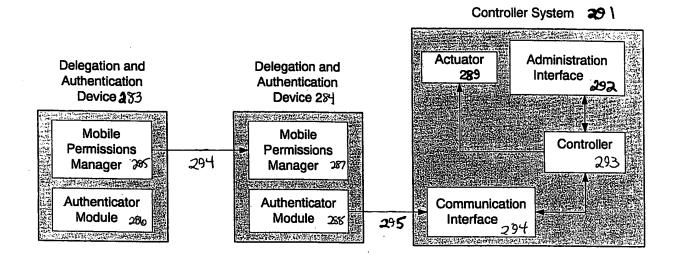
F16. - F

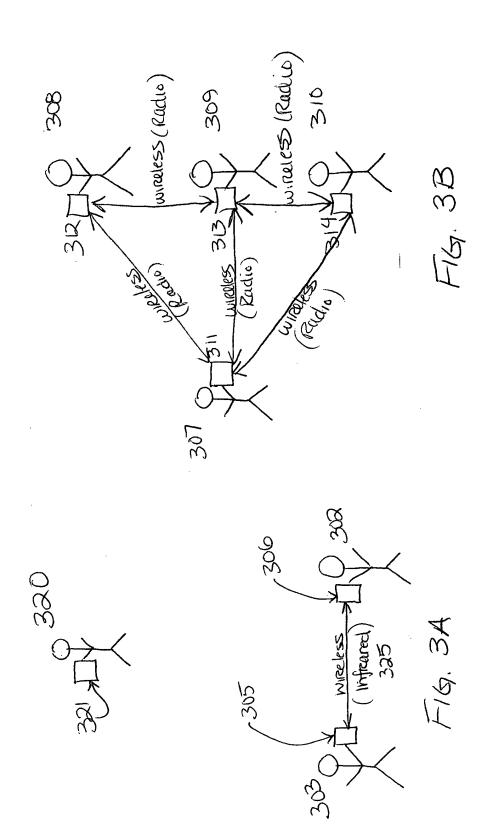


F16 28

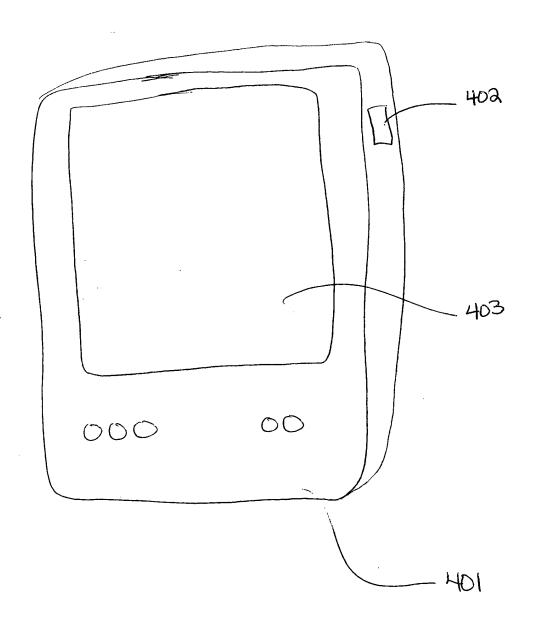


F16,2C

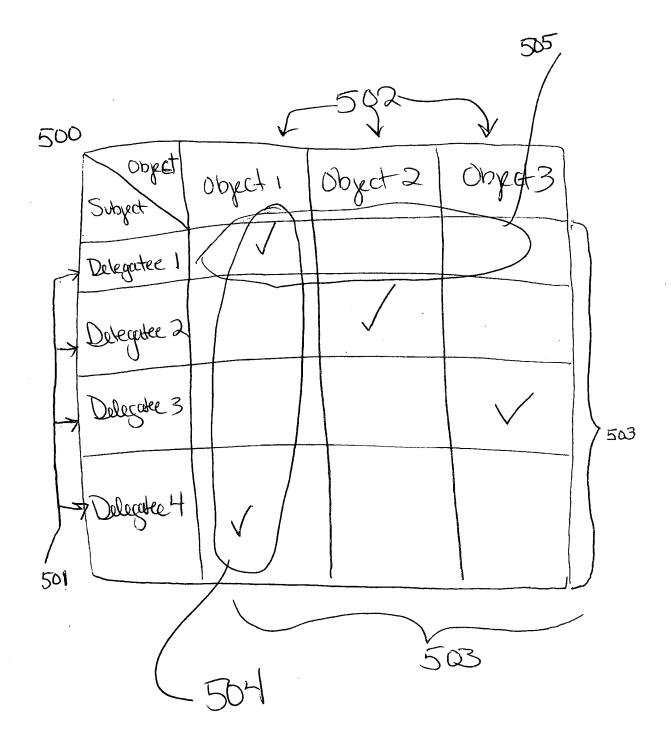




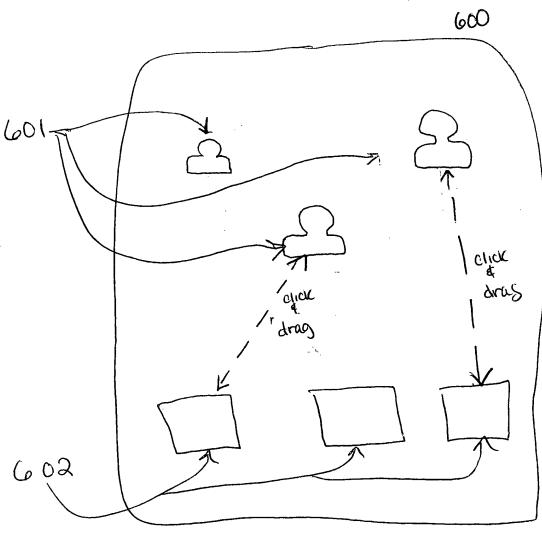
F16,4



F16.5







F161.6

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## Sending Permission as part of a header within an HTTP request. (See http://www.ietf.org/rfc/rfc2616.txt).

GET /resource/ HTTP/1.1

Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, application/vnd.ms-powerpoint, application/vnd.ms-excel,

application/msword, \*/\*
Accept-Language: en-us

Accept-Encoding: gzip, deflate

User-Agent: Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)

Vchain: 50U+F61olMMJzRmZs6QNRhx1UE3artX4ax56AJdJxYR7dzyPNg1g+cwEOzzjT+ v8ywbpyuugQvj1uZSSVDfkbje/C+NV8sLfp5d3eaTykzeP+siJxl7wg3njzn2mLOnRKrXw WuX6qW3qR76zVuIz0y1wS9bZzSiu+ImN/SaHRS3eqBFPL7Ye0lJzin4jH81046kLpiXB+O  ${\tt CloFRqsCmy5/JCrgvR01Rw2rolg6uXgK8xKdybfSXPkJx4w1A0d9GdGAqRycOGFoXtyzpS}$ +bASvdt2UJMssCXAKTw5bi+sUzuTbeX2xPJwDsPvuevICZHVGwnqJemvVUrH1DdhnMzYzF ZfTqeZ6sYAZCvsAiCYghRB6fK9JJV/vj9CzF1vfyFPfYYH75ONHjMdDr5qrVbSm4hK2GFZ IVPnyxYHwTafKHhbU2aQ5KFZbBGMwIikfBRMVfsqz3hpKa5Pd+NZELIwQ4FWlWgrIzL+jw Le1CfDk2V4SntsK+CFxBVGbU6dWpQYe2x0Bjat5yjbgYfXdz/vXfNxjHoAiUYwt4ZNwK0+ UG78+E1rtw2UoIUPuQoCpCXh9EMeaACc7gSKY2KfuY10FeCHZ00c16a4M82DUtE6JhrX6U fR08r9QmxVnZu0/MW2vbWNS6rCUvsw78zWpChy3V11bxTyofETq9WofZ3u+bomL8WqchTd /QPyHMaky37tXEhrjZxUkgJtI0oA12kVaTDERIwBnhQYM3mzp48n8wCq8qH2JP78DSOQwC HMolJQPmjfaOxaCR5wE9mhJGHjtTOpXx3GkLNlNuZYq7tbxYznGNJ2VgwUPpCQppohcWmF B1779OcTc59zt9kV6A3MyeI/1ZCP5iW+VjPEa6h5CWhqHDT3mvDXSAJ8Wx66XiIEJmtzil  $1 \\ Dpnt \\ 0 \\ ph \\ Jp \\ CDAPy \\ M2XO2b \\ JGr \\ Pnim \\ Sb \\ Usa \\ ELQW \\ dMmt \\ Uyczy \\ STDI \\ lpq \\ jKMN \\ Ulytl \\ HdmN \\ 2jly \\ lpq \\ jKMN \\ Ulytl \\ HdmN \\ 2jly \\ lpq \\ jKMN \\ Ulytl \\ HdmN \\ 2jly \\ lpq \\ jKMN \\ Ulytl \\ HdmN \\ 2jly \\ lpq \\ jKMN \\ Ulytl \\ HdmN \\ 2jly \\ lpq \\ lpq$ 2+hHplkzgxxXKhi1I/JtC97X2GBbm7nlUnICG6sAbxq6lBHX5sNs1TzWChjYhtFlMuCezT Umf1LBgGPgh6Uv3oyUVoasRmsKi6qbqweDdxXfZD3uFR/iJNLUzwnt3/PJwtPJpJHJ+Sia /hkB9+alMZXfSkMQaBpAE7/BfzRHs+09fDTL+kBFdO0w0fvkTo9AlfVF99wiAJ0hZt7q+e GWkPi5SRO+9/T710r7wNvC9NELRfsziq/v+8LM179yjjCm0chAZTv09iA8i28gQotzjdFX lfE3vL0wmrP/6lGSfqZhWc2Ho/m7FmqA9pJQVCRsVXXQOSWAZdPC3a75Jxyoa8hHDxg1uK RaAF1xOboHeR1Z9GQHoia9ucQORhrbIu0S2OAfj99QjmszP3gQ64Pw+EakfS+lYQYbauY9 Z+8bRf+G8JnhRZIvcyu5y1RW74goguqs6BSf6NcuC3rBJhf30xn151/a8SraFtzUR4rv+e qjQyE=

Connection: Keep-Alive
Host: www.websitexyz.com

HTTP/1.0 200 OK

Content-Length: 16485 Content-Type: text/html

<html><head><title>WebsiteXYZ</title>

F16.7.

## Sending the permeson as part of a "cookie" within an HTTP request (see http://www.ietf.org/rfc/rfc2616.txt and http://www.ietf.org/rfc/rfc2109.txt).

GET /resource/ HTTP/1.1

Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg,

application/vnd.ms-powerpoint, application/vnd.ms-excel,

application/msword, \*/\*
Accept-Language: en-us

Accept-Encoding: gzip, deflate

User-Agent: Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)

Cookie: Vchain=50U+F61olMMJzRmZs6QNRhx1UE3artX4ax56AJdJxYR7dzyPNg1g+cw EOzzjT+v8ywbpyuugQvj1uZSSVDfkbje/C+NV8sLfp5d3eaTykzeP+siJx17wg3njzn2mL OnRKrXwWuX6gW3gR76zVuIzOy1wS9bZzSiu+ImN/SaHRS3eqBFPL7Ye01Jzin4jH81046k LpiXB+OCloFRqsCmy5/JCrgvR01Rw2rolg6uXgK8xKdybfSXPkJx4w1A0d9GdGAqRycOGF oXtyzpS+bASvdt2UJMssCXAKTw5bi+sUzuTbeX2xPJwDsPvuevICZHVGwnqJemvVUrH1DD hnMzYzFZfTqeZ6sYAZCvsAiCYghRB6fK9JJV/vj9CzFlvfyFPfYYH75ONHjMdDr5qrVbSm 4hK2GFZIVPnyxYHwTafKHhbU2aQ5KFZbBGMwIikfBRMVfsqz3hpKa5Pd+NZELIwQ4FWlWq rIzL+jwLe1CfDk2V4SntsK+CFxBVGbU6dWpQYe2x0Bjat5yjbgYfXdz/vXfNxjHoAiUYwt 4ZNwK0+UG78+E1rtw2UoIUPuQoCpCXh9EMeaACc7gSKY2KfuY10FeCHZ00c16a4M82DutE 6JhrX6UfR08r9QmxVnZu0/MW2vbWNS6rCUvsw78zWpChy3V11bxTyofETq9WofZ3u+bomL 8WqchTd/QPyHMaky37tXEhrjZxUkqJtI0oA12kVaTDERIwBnhQYM3mzp48n8wCq8qH2JP7 8DSOQwCHMolJQPmjfaOxaCR5wE9mhJGHjtTOpXx3GkLNlNuZYq7tbxYznGNJ2VgwUPpCQp pohcWmFB1779OcTc59zt9kV6A3MyeI/1ZCP5iW+VjPEa6h5CWhqHDT3mvDXSAJ8Wx66XiI EJmtzil1Dpnt0phJpCDAPyM2XO2bJGrPnimSbUsaELQWdMmtUyczy5TDI1pqjKMNU1yt1H dmN2jly2+hHplkzqxxXKhi1I/JtC97X2GBbm7nlUnICG6sAbxq61BHX5sNs1TzWChjYhtF lMuCezTUmf1LBgGPgh6Uv3oyUVoasRmsKi6qbqweDdxXf2D3uFR/iJNLUzwnt3/PJwtPJp JHJ+SIa/hkB9+alMZXfSkMQaBpAE7/BfzRHs+09fDTL+kBFdO0w0fvkTo9AlfVF99wiAJ0 hZt7q+eGWkPi5SRO+9/T710r7wNvC9NELRfsziq/v+8LM179yjjCm0chAZTv09iA8i28qQ otzjdFX1fE3vL0wmrP/6lGSfqZhWc2Ho/m7FmqA9pJQVCRsVXXQOSWAZdPC3a75Jxyoa8h HDxgluKRaAF1xQboHeR1Z9GQHoia9ucQORhrbIu0S2OAfj99QjmszP3gQ64Pw+EakfS+1Y QYbauY9Z+8bRf+G8JnhRZIvcyu5y1RW74goguqs6BSf6NcuC3rBJhf30xn151/a8SraFtz UR4rv+eqjQyE=

Connection: Keep-Alive Host: www.websitexyz.com

HTTP/1.0 200 OK

Content-Length: 16485 Content-Type: text/html

<html><head><title>WebsiteXYZ</title>

F16.8

## Sending the permission as part of a URL

http://www.websitexyz.com/resource/?Vchain=50U+F61olMMJzRmZs6QNRhx1UE3a rtX4ax56AJdJxYR7dzyPNg1g+cwEOzzjT+v8ywbpyuugQvj1uZSSVDfkbje/C+NV8sLfp5d 3eaTykzeP+siJxl7wg3njzn2mLOnRKrXwWuX6gW3gR76zVuIz0y1wS9bZzSiu+ImN/SaHRS 3eqBFPL7Ye01Jzin4jH81046kLpiXB+OCloFRqsCmy5/JCrgvR01Rw2rolg6uXgK8xKdybf SXPkJx4w1A0d9GdGAqRycOGFoXtyzpS+bASvdt2UJMssCXAKTw5bi+sUzuTbeX2xPJwDsPv uevICZHVGwnqJemvVUrH1DDhnMzYzFZfTqeZ6sYAZCvsAiCYghRB6fK9JJV/vj9CzF1vfyF PfYYH750NHjMdDr5qrVbSm4hK2GFZIVPnyxYHwTafKHhbU2aQ5KFZbBGMwIikfBRMVfsqz3 hpKa5Pd+NZELIwQ4FWlWgrIzL+jwLe1CfDk2V4SntsK+CFxBVGbU6dWpQYe2x0Bjat5yjbq YfXdz/vXfNxjHoAiUYwt4ZNwK0+UG78+E1rtw2UoIUPuQoCpCXh9EMeaACc7gSKY2KfuY10 FeCHZ00c16a4M82DUtE6JhrX6UfR08r9QmxVnZu0/MW2vbWNS6rCUvsw78zWpChy3V11bxT yofETq9WofZ3u+bomL8WgchTd/QPyHMaky37tXEhrjZxUkgJtI0oA12kVaTDERIwBnhQYM3 mzp48n8wCq8qH2JP78DSOQwCHMolJQPmjfaOxaCR5wE9mhJGHjtTOpXx3GkLN1NuZYq7tbx YznGNJ2VgwUPpCQppohcWmFB1779OcTc59zt9kV6A3MyeI/1ZCP5iW+VjPEa6h5CWhqHDT3 mvDXSAJ8Wx66XiIEJmtzil1Dpnt0phJpCDAPyM2XO2bJGrPnimSbUsaELQWdMmtUyczy5TD IlpqjKMNUlytlHdmN2jly2+hHplkzgxxXKhi1I/JtC97X2GBbm7nlUnICG6sAbxq6lBHX5s Ns1TzWChjYhtFlMuCezTUmf1LBgGPgh6Uv3oyUVoasRmsKi6qbqweDdxXfZD3uFR/iJNLUz wnt3/PJwtPJpJHJ+SIa/hkB9+alMZXfSkMQaBpAE7/BfzRHs+09fDTL+kBFdO0w0fvkTo9A lfVF99wiAJ0hZt7q+eGWkPi5SRO+9/T710r7wNvC9NELRfsziq/v+8LM179yjjCm0chAZTv 09iA8i28gQotzjdFX1fE3vL0wmrP/6lGSfqZhWc2Ho/m7FmqA9pJQVCRsVXXQOSWAZdPC3a 75Jxyoa8hHDxg1uKRaAF1xQboHeR1Z9GQHoia9ucQORhrbIu0S2OAfj99QjmszP3qQ64Pw+ EakfS+1YQYbauY9Z+8bRf+G8JnhRZIvcyu5y1RW74goguqs6BSf6NcuC3rBJhf30xn151/a 8SraFtzUR4rv+eqjQyE=

F16.9

Fig. 10

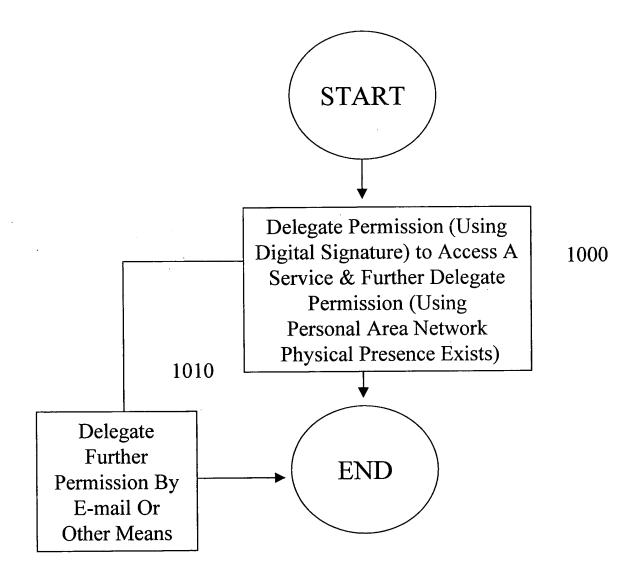


Fig. 11

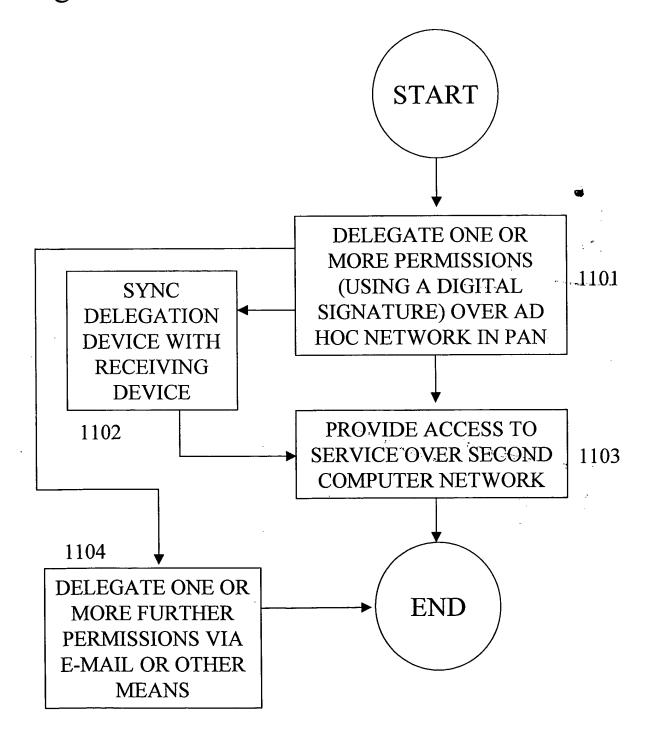


Fig. 12

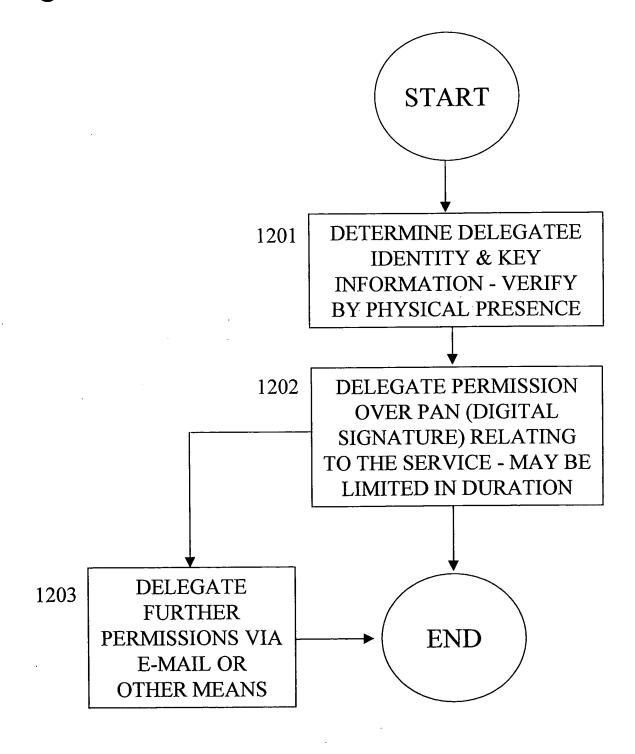


Fig. 13

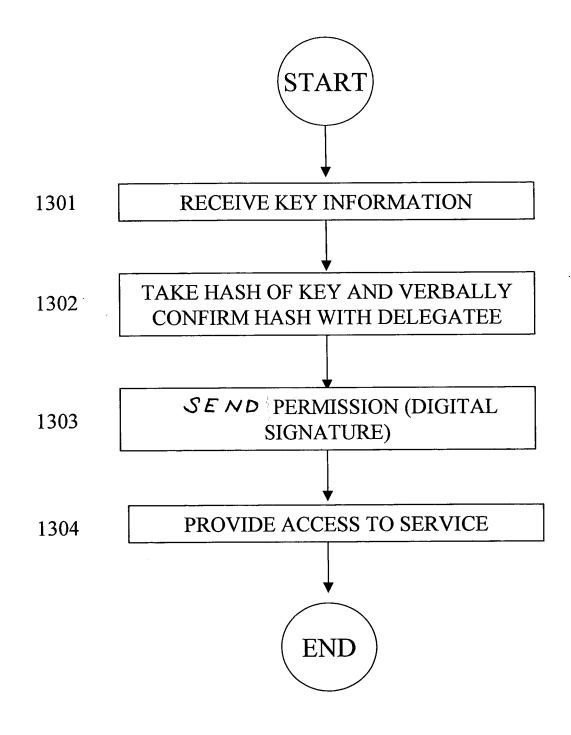


Fig. 14

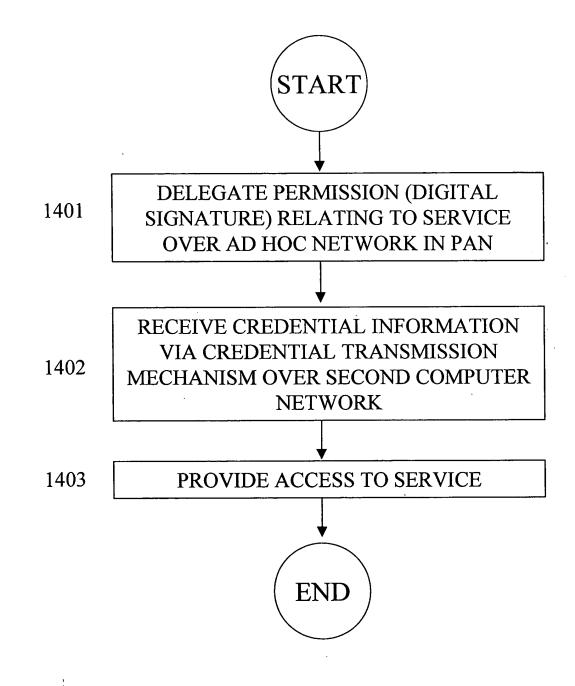


Fig. 15

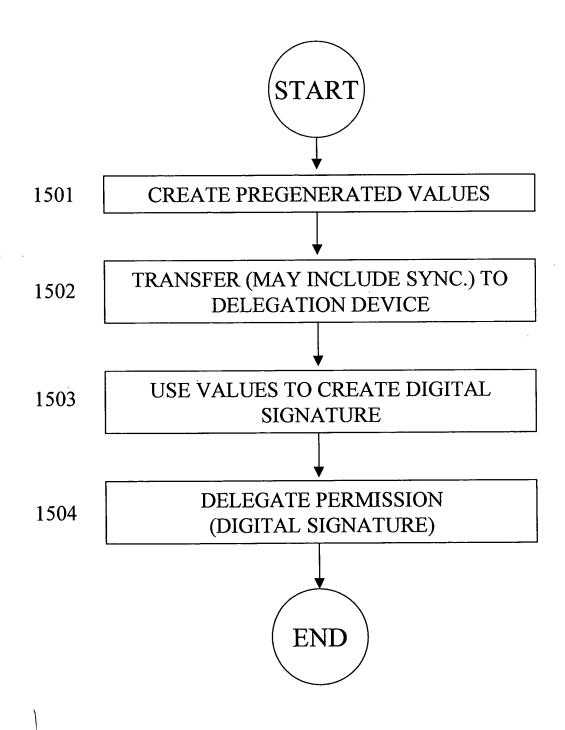


Fig. 16

